

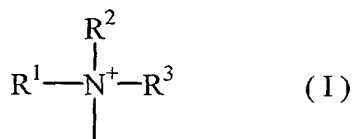
CLAIMS

1. An adsorbent of high-mobility-group proteins comprising a water-insoluble carrier on which (a) substance(s) having (a) hydrogen-bondable functional group(s) and/or (a) hydrophobic functional group(s) is(are) immobilized.

5 2. The adsorbent according to claim 1, wherein said hydrogen-bondable functional group(s) is(are) (a) cationic functional group(s).

3. The adsorbent according to claim 2, wherein said cationic functional group(s) is(are) primary amino group, secondary amino group, tertiary amino group, imino group and/or quaternary ammonium group.

10 4. The adsorbent according to claim 3, wherein said cationic functional group(s) is(are) represented by the following Formula (I):



(wherein R^1 , R^2 and R^3 independently represent hydrogen atom or a C_1 - C_5 alkyl group, respectively)

15 5. The adsorbent according to claim 4, wherein in Formula (I), R^1 , R^2 and R^3 independently represent hydrogen atom or a C_1 - C_2 alkyl group, respectively.

6. The adsorbent according to claim 5, wherein all of R^1 , R^2 and R^3 in Formula (I) represent methyl group.

7. The adsorbent according to claim 1, wherein said hydrogen-bondable functional group(s) is(are) (an) anionic functional group(s).

20 8. The adsorbent according to claim 7, wherein said hydrogen-bondable functional group(s) is(are) carboxyl group, sulfate group, sulfonic acid group, and/or phosphate group.

9. The adsorbent according to claim 1, wherein said hydrophobic functional group(s) is(are) (an) alkyl group(s) having not less than 6 carbon atoms, or (an)

aromatic group(s).

10. The adsorbent according to claim 1, wherein said substance(s) having (a) hydrogen-bondable functional group(s) and/or (a) hydrophobic functional group(s) is(are) (a) peptide(s) or (an) amino acid(s).

5 11. The adsorbent according to claim 3, wherein said substance(s) having (a) hydrogen-bondable functional group(s) is(are) (a) peptide(s) or (an) amino acid(s) having (an) amino group(s) in its(their) side chain(s).

12. The adsorbent according to claim 11, wherein said substance having (a) hydrogen-bondable functional group(s) is(are) polylysine.

10 13. The adsorbent according to claim 7, wherein (a) polysaccharide(s) having (an) sulfate group(s) is(are) immobilized.

14. The adsorbent according to claim 13, wherein said polysaccharide is heparin or dextran sulfate, or a derivative thereof.

15 15. An adsorbent of high-mobility-group proteins comprising a water-insoluble carrier on which (an) antibody(ies) to said high-mobility-group proteins is(are) immobilized.

16. The adsorbent according to claim 15, wherein said adsorbent has a rate of adsorption for high-mobility-group proteins of not less than 50%, and has a rate of adsorption for serum albumin of not more than 20%.

20 17. The adsorbent according to any one of claims 1 to 16, wherein said water-insoluble carrier is in the form of fibers.

18. The adsorbent according to any one of claims 1 to 16, wherein said water-insoluble carrier is in the form of beads.

25 19. The adsorbent according to any one of claims 1 to 18, which is used for therapy of sepsis.

20. A body fluid-purification column for removing high-mobility-group proteins, comprising a column, and said adsorbent according to any one of claims 1 to 19,

which adsorbent is packed in said column.

21. The body fluid-purification column according to claim 20, by which extracorporeal circulation of whole blood can be attained.

22. The body fluid-purification column according to claim 20 or 21, which is used for therapy of sepsis.

23. A method for adsorbing high-mobility-group proteins in body fluid, comprising contacting said adsorbent according to any one of claims 1 to 18 with body fluid so as to adsorb said high-mobility-group proteins in said body fluid to said adsorbent.

24. The method according to claim 23, which is carried out by using said body fluid-purification column according to any one of claims 20 to 22.

25. The method according to claim 23 or 24, wherein said body fluid is blood.

26. The method according to any one of claims 24 to 25, which is carried out for therapy of sepsis.

27. The method according to claim 26, which is carried by using said body fluid-purification column according to any one of claims 20 to 22 together with (a) body fluid-purification column(s) which adsorb(s) (a) substance(s) originated from bacteria.

28. Use of said adsorbent according to any one of claims 1 to 18 for production of adsorbent material for adsorbing high-mobility-group proteins in body fluid.

29. The use according to claim 27, wherein said body fluid is blood.

30. The use according to claim 27 or 28, wherein said adsorbent material is for therapy of sepsis.